

Appendix G

WAG 6 and 10 ERA Dose and Hazard Quotient Tables

CONTENTS

G-1. Dose Calculations and Hazard Quotients for Functional Groups/Sensitive Species	G-1
---	-----

TABLES

G-1. BORAX-01.....	G-2
G-2. BORAX-02 (2000)	G-3
G-3. BORAX-09	G-4
G-4. Fly Ash Pit	G-5
G-5. LCCDA-01.....	G-6
G-6. LCCDA-02.....	G-7
G-7. OMRE-01 (Organic Moderated Reactor Experiment Leach Pond).....	G-8
G-8. CFA-633 Naval Firing Site and Downrange Area.....	G-9
G-9. Naval Ordnance Disposal Area (Area #2).	G-10
G-10. Naval Ordnance Disposal Area (Area #3).	G-14
G-11. Naval Ordnance Disposal Area (Area #4).	G-16
G-12. National Oceanic and Atmospheric Administration Grid (Area #1).	G-17
G-13. National Oceanic and Atmospheric Administration Grid (Arca #2).	G-18
G-14. National Oceanic and Atmospheric Administration Grid (Area #2a).....	G-19
G-15. National Oceanic and Atmospheric Administration Grid (Area #3).	G-20
G-16. National Oceanic and Atmospheric Administration Grid (Area #4).	G-21
G-17. National Oceanic and Atmospheric Administration Grid (Area #5).	G-22
G-18. National Oceanic and Atmospheric Administration Grid (Area #6).	G-23
G-19. Fire Station II Zone and Range Fire Burn Area (Area #1).	G-24
G-20. Fire Station II Zone and Range Fire Burn Area (Area #2).	G-25
G-21. Fire Station II Zone and Range Fire Burn Area (Area #3).	G-26
G-22. Fire Station II Zone and Range Fire Burn Area (Area #4).	G-27

G-23. Mass Detonation Area	G-28
G-24. Experimental Field Station (Area #1).....	G-29
G-25. Experimental Field Station (Area #2).....	G-30
G-26. Unexploded Ordnance East of TRA	G-31
G-27. Burn Ring South of Experimental Field Station	G-32
G-28. Rail Car Explosion Area (Area #2).....	G-34
G-29. Rail Car Explosion Area (Area #3).....	G-35
G-30. Rail Car Explosion Area (Area #4).....	G-36
G-31. Rail Car Explosion Area (Area #5).....	G-37
G-32. Rail Car Explosion Area (Area #6).....	G-38
G-33. Land Mine Fuze Burn Area (Area #2).....	G-39
G-34. Land Mine Fuze Burn Area (Area #3).....	G-40
G-35. Craters East of INTEC.....	G-41
G-36. STF-02 Remainder Area.....	G-42
G-37. STF-02 Kickout Area.....	G-43

Appendix G

Input Tables for the Ecological Risk Assessment

G-1. DOSE CALCULATIONS AND HAZARD QUOTIENTS FOR FUNCTIONAL GROUPS/SENSITIVE SPECIES

This attachment gives the results of the Waste Area Group (WAG) Ecological Risk Assessment (ERA). Each table represents one site (e.g., BORAX-01) and is composed of four parts: soil concentrations, size of site, results of the dose calculations, and results of the hazard quotient calculations. NA means no toxicity data were available for that contaminant and species. NA cells were ignored (i.e., treated as zeros) when calculating the total hazard quotient (HQ).

NC means exposure calculations and HQs were not calculated for a contaminant and species. For example the Blue-winged teal had no HQs calculated. This species can inhabit several different habitats and the home range on the INEEL is very hard to define. NC cells were ignored when calculating the total HQ.

ND (not detected) means contaminants in the surface or subsurface soil were not detected or no sampling results were available. These exposure mediums could not be assessed. ND cells were ignored when determining the maximum concentration in the soil.

Dashes were placed in the rows having to do with water concentrations. The exposure from contaminants in surface water was not analyzed in this ERA. This is because of the limited amount of surface water that exists on the INEEL, and also the limited amount of information characterizing the concentrations of contaminants in surface water. See Appendix F for further discussion of these and other uncertainties in the WAG 6 &10 ERA. Cells with dashes were ignored when calculating the total HQ.

Table G-1. BORAX-01.

Concentrations	Cadmium	Cobalt	Mercury
Concentration in surface soil (0-0.5 ft)	ND	ND	ND
Concentration in subsurface soil (0-10ft)	4.14E+00	9.12E+00	4.20E-01
Maximum concentration	4.14E+00	9.12E+00	4.20E-01
Water concentration (mg/L)	—	—	—
Size of Site (ha)	1.67E-02	—	—
Dose (mg/kg-d)			
Functional Groups	Cadmium	Cobalt	Mercury
Great Basin spadefoot toad	4.54E-03	1.00E-02	4.61E-04
Mourning dove	4.46E-04	1.93E-02	7.36E-05
Blue-winged teal	NC	NC	NC
Sage sparrow	2.98E-02	6.02E-02	1.26E-03
Ferruginous hawk	8.19E-06	9.58E-06	3.12E-07
Loggerhead shrike	3.12E-03	3.66E-03	1.19E-04
Burrowing owl	5.97E-04	7.02E-04	2.29E-05
Black-billed magpie	8.01E-04	8.58E-03	5.33E-05
Mule deer	1.35E-04	5.75E-03	2.21E-05
Pygmy rabbit	2.52E-01	1.07E+01	4.12E-02
Townsend's western big-eared bat	6.86E-03	1.38E-02	2.57E-04
Coyote	8.15E-07	9.58E-07	3.13E-08
Deer mouse	8.17E-01	8.70E+00	5.46E-02
Sagebrush lizard	6.28E-03	1.26E-02	2.41E-04
Plants	2.28E+00	1.00E+02	3.78E-01
Grasshoppers, beetles	NA	NA	NA
Hazard Quotient (unitless)			
Functional Groups	Cadmium	Cobalt	Mercury
Great Basin spadefoot toad	NA	NA	NA
Mourning dove	1.E-02	9.E-02	2.E-02
Blue-winged teal	NC	NC	NC
Sage sparrow	1.E+00	3.E-01	4.E-01
Ferruginous hawk	4.E-04	4.E-05	1.E-04
Loggerhead shrike	2.E-01	2.E-02	4.E-02
Burrowing owl	3.E-02	3.E-03	8.E-03
Black-billed magpie	4.E-02	3.E-02	2.E-02
Mule deer	2.E-01	4.E-03	1.E-03
Pygmy rabbit	3.E+02	8.E+00	2.E+00
Townsend's western big-eared bat	9.E+00	1.E-02	1.E-02
Coyote	1.E-03	7.E-07	2.E-06
Deer mouse	8.E+02	4.E+00	1.E+00
Sagebrush lizard	NA	NA	NA
Plants	8.E-01	NA	1.E+00
Grasshoppers, beetles	NA	NA	NA

Table G-2. BORAX-02 (ECO Sampling 2000).

Concentrations	Strontium
Concentration in surface soil (0-0.5 ft)	9.26E+01
Concentration in sub-surface soil (0-10 ft)	1.30E+02
Maximum concentration	1.30E+02
Water concentration (mg/L)	—
Size of Site (ha)	3.82E-01
Dose (mg/kg-d)	
Functional Groups	Strontium
Great Basin spadefoot toad	1.05E+00
Mourning dove	1.09E+01
Blue-winged teal	NC
Sage sparrow	2.83E+01
Ferruginous hawk	4.65E-03
Loggerhead shrike	1.78E+00
Burrowing Owl	3.40E-01
Black-billed magpie	4.77E+00
Mule deer	3.23E+00
Pygmy rabbit	2.64E+02
Townsend's western big-eared bat	6.70E+00
Coyote	4.64E-04
Deer mouse	2.12E+02
Sagebrush lizard	9.59E-01
Plants	2.47E+03
Grasshoppers, beetles	NA
Hazard Quotient (unitless)	
Functional Groups	Strontium
Great Basin spadefoot toad	NA
Mourning dove	NA
Blue-winged teal	NC
Sage sparrow	NA
Ferruginous hawk	NA
Loggerhead shrike	NA
Burrowing Owl	NA
Black-billed magpie	NA
Mule deer	1.E-01
Pygmy rabbit	8.E+00
Townsend's western big-eared bat	2.E-01
Coyote	1.E-05
Deer mouse	4.E+00
Sagebrush lizard	NA
Plants	NA
Grasshoppers, beetles	NA

Table G-3. BORAX-09.

Concentrations	Manganese	Mercury
Concentration in surface soil (0-0.5 ft)	3.99E+02	1.20E+00
Concentration in subsurface soil (0-10 ft)	2.00E+01	6.00E-02
Maximum concentration	3.99E+02	1.20E+00
Water concentration (mg/L)	—	—
Size of Site (ha)	3.22E-02	
Dose (mg/kg-d)		
Functional Groups	Manganese	Mercury
Great Basin spadefoot toad	2.01E-01	2.39E-03
Mourning dove	1.45E+00	4.00E-04
Blue-winged teal	NC	NC
Sage sparrow	1.17E+00	5.60E-03
Ferruginous hawk	1.98E-04	1.67E-06
Loggerhead shrike	7.58E-02	6.36E-04
Burrowing owl	1.44E-02	1.21E-04
Black-billed magpie	6.04E-01	2.90E-04
Mule deer	4.30E-01	1.19E-04
Pygmy rabbit	4.17E+02	1.15E-01
Townsend's western big-eared bat	2.87E-01	1.38E-03
Coyote	1.97E-05	1.65E-07
Deer mouse	3.18E+02	1.52E-01
Sagebrush lizard	2.60E-01	1.25E-03
Plants	3.91E+03	1.08E+00
Grasshoppers, beetles	NA	NA
Hazard Quotient (unitless)		
Functional Groups	Manganese	Mercury
Great Basin spadefoot toad	NA	NA
Mourning dove	2.E-02	1.E-01
Blue-winged teal	NC	NC
Sage sparrow	2.E-02	2.E+00
Ferruginous hawk	3.E-06	6.E-04
Loggerhead shrike	1.E-03	2.E-01
Burrowing owl	2.E-04	4.E-02
Black-billed magpie	6.E-03	1.E-01
Mule deer	1.E-02	6.E-03
Pygmy rabbit	1.E+01	6.E+00
Townsend's western big-eared bat	1.E-02	7.E-02
Coyote	7.E-07	8.E-06
Deer mouse	7.E+00	4.E+00
Sagebrush lizard	NA	NA
Plants	8.E+00	4.E+00
Grasshoppers, beetles	NA	NA

Table G-4. Fly ash pit.

Concentrations	Boron	Copper	Selenium	Strontium
Concentration in surface soil (0-0.5 ft)	5.11E+01	2.31E+01	3.70E-01	1.63E+02
Concentration in subsurface soil (0-10 ft)	3.28E+01	2.18E+01	3.00E-01	9.45E+01
Maximum concentration	5.11E+01	2.31E+01	3.70E-01	1.63E+02
Water concentration (mg/L)	—	—	—	—
Size of Site (ha)	2.92E+00	—	—	—
Dose (mg/kg-d)				
Functional Groups	Boron	Copper	Selenium	Strontium
Great Basin spadefoot toad	1.60E-02	1.87E-01	2.97E-03	1.29E+00
Mourning dove	1.73E+00	6.28E-01	4.12E-04	1.04E+02
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	4.63E-01	3.44E+00	5.45E-02	3.46E+01
Ferruginous hawk	1.28E-04	9.10E-04	2.24E-05	4.43E-02
Loggerhead shrike	4.87E-02	3.47E-01	8.54E-03	1.69E+01
Burrowing Owl	1.38E-02	6.90E-02	1.66E-03	3.22E+00
Black-billed magpie	7.08E-01	5.74E-01	5.26E-03	4.57E+01
Mule deer	5.17E-01	1.89E-01	1.53E-04	3.09E+01
Pygmy rabbit	5.52E+00	2.02E+00	1.64E-03	3.31E+02
Townsend's western big-eared bat	7.94E-02	4.98E+00	7.96E-02	5.24E+01
Coyote	1.76E-05	9.35E-05	2.26E-06	4.40E-03
Deer mouse	4.16E+00	3.36E+00	3.10E-02	2.65E+02
Sagebrush lizard	4.10E-03	1.14E-01	1.83E-03	1.19E+00
Plants	5.11E+01	1.85E+01	9.25E-03	3.10E+03
Grasshoppers, beetles	NA	NA	NA	NA
Hazard Quotient (unitless)				
Functional Groups	Boron	Copper	Selenium	Strontium
Great Basin spadefoot toad	NA	NA	NA	NA
Mourning dove	1.E-01	1.E-01	3.E-03	NA
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	5.E-02	7.E-01	7.E-01	NA
Ferruginous hawk	1.E-05	2.E-04	3.E-04	NA
Loggerhead shrike	5.E-03	8.E-02	1.E-01	NA
Burrowing Owl	1.E-03	1.E-02	2.E-02	NA
Black-billed magpie	7.E-02	8.E-02	7.E-02	NA
Mule deer	2.E-01	3.E-01	1.E-03	1.E+00
Pygmy rabbit	2.E+00	3.E+00	1.E-02	1.E+01
Townsend's western big-eared bat	3.E-02	8.E+00	6.E-01	2.E+00
Coyote	6.E-06	5.E-05	2.E-05	1.E-04
Deer mouse	9.E-01	5.E+00	2.E-01	6.E+00
Sagebrush lizard	NA	NA	NA	NA
Plants	1.E+02	2.E-01	9.E-03	NA
Grasshoppers, beetles	NA	NA	NA	NA

Table G-5. LCCDA-01.

Concentrations	Barium	Beryllium	Cobalt	Copper	Manganese	Vanadium
Concentration in surface soil (0-0.5 ft)	4.03E+02	3.30E+00	8.70E+00	2.26E+01	4.00E+02	3.46E+01
Concentration in subsurface soil (0-10 ft)	3.55E+02	2.92E+00	9.88E+00	2.34E+01	5.69E+02	3.82E+01
Maximum concentration	4.03E+02	3.30E+00	9.88E+00	2.34E+01	5.69E+02	3.82E+01
Water concentration (mg/L)	—	—	—	—	—	—
Size of Site (ha)	1.10E-03	—	—	—	—	—
Dose (mg/kg-d)						
Functional Groups	Barium	Beryllium	Cobalt	Copper	Manganese	Vanadium
Great Basin spadefoot toad	2.90E-02	1.47E-05	7.15E-04	1.69E-03	1.21E-02	2.76E-03
Mourning dove	8.12E-04	7.93E-07	1.38E-03	2.41E-04	7.08E-02	7.56E-06
Blue-winged teal	NC	NC	NC	NC	NC	NC
Sage sparrow	1.73E-01	1.31E-04	4.30E-03	1.02E-02	7.92E-02	1.66E-02
Ferruginous hawk	4.59E-06	6.28E-09	6.84E-07	3.50E-07	1.04E-05	6.72E-08
Loggerhead shrike	1.75E-03	2.40E-06	2.61E-04	1.34E-04	3.99E-03	2.56E-05
Burrowing owl	3.52E-04	6.07E-07	5.02E-05	2.66E-05	7.87E-04	6.85E-06
Black-billed magpie	2.43E-03	6.45E-07	6.13E-04	2.20E-04	2.96E-02	2.02E-04
Mule deer	2.55E-04	3.49E-07	4.11E-04	7.24E-05	2.11E-02	3.73E-06
Pygmy rabbit	3.17E+00	4.34E-03	5.10E+00	9.00E-01	2.62E+02	4.64E-02
Townsend's western big-eared bat	4.00E-02	6.15E-06	9.83E-04	2.33E-03	1.46E-02	3.80E-03
Coyote	4.76E-07	7.88E-10	6.84E-08	3.60E-08	1.07E-06	8.82E-09
Deer mouse	2.98E+00	1.16E-03	7.42E-01	2.69E-01	3.58E+01	2.49E-01
Sagebrush lizard	3.66E-02	9.32E-06	9.00E-04	2.13E-03	1.39E-02	3.48E-03
Plants	6.05E+01	3.30E-02	1.09E+02	1.87E+01	5.58E+03	2.10E-01
Grasshoppers, beetles	NA	NA	NA	NA	NA	NA
Hazard Quotient (unitless)						
Functional Groups	Barium	Beryllium	Cobalt	Copper	Manganese	Vanadium
Great Basin spadefoot toad	NA	NA	NA	NA	NA	NA
Mourning dove	NA	NA	6.E-03	5.E-05	1.E-03	1.E-06
Blue-winged teal	NC	NC	NC	NC	NC	NC
Sage sparrow	NA	NA	2.E-02	2.E-03	1.E-03	4.E-03
Ferruginous hawk	NA	NA	3.E-06	8.E-08	1.E-07	2.E-08
Loggerhead shrike	NA	NA	1.E-03	3.E-05	6.E-05	7.E-06
Burrowing owl	NA	NA	2.E-04	6.E-06	1.E-05	2.E-06
Black-billed magpie	NA	NA	2.E-03	3.E-05	3.E-04	5.E-05
Mule deer	4.E-04	2.E-06	3.E-04	1.E-04	7.E-04	8.E-06
Pygmy rabbit	5.E+00	2.E-02	4.E+00	1.E+00	9.E+00	1.E-01
Townsend's western big-eared bat	6.E-02	3.E-05	7.E-04	4.E-03	5.E-04	8.E-03
Coyote	7.E-07	4.E-09	5.E-08	2.E-08	4.E-08	2.E-08
Deer mouse	3.E+00	4.E-03	4.E-01	4.E-01	8.E-01	4.E-01
Sagebrush lizard	NA	NA	NA	NA	NA	NA
Plants	1.E-01	3.E-03	NA	2.E-01	1.E+01	1.E-03
Grasshoppers, beetles	NA	NA	NA	NA	NA	NA

Table G-6. LCCDA-02.

Concentrations	Beryllium	Copper	Manganese
Concentration in surface soil (0-0.5 ft)	ND	ND	ND
Concentration in subsurface soil (0-10 ft)	1.08E+00	1.62E+01	3.27E+02
Maximum concentration	1.08E+00	1.62E+01	3.27E+02
Water concentration (mg/L)	—	—	—
Size of Site (ha)	1.20E-03	—	—
Dose (mg/kg-d)			
Functional Groups	Beryllium	Copper	Manganese
Great Basin spadefoot toad	5.79E-06	1.27E-03	7.54E-03
Mourning dove	2.98E-07	1.80E-04	4.41E-02
Blue-winged teal	NC	NC	NC
Sage sparrow	5.20E-05	7.64E-03	4.93E-02
Ferruginous hawk	2.42E-09	2.63E-07	6.50E-06
Loggerhead shrike	9.22E-07	1.00E-04	2.48E-03
Burrowing owl	2.36E-07	2.00E-05	4.90E-04
Black-billed magpie	2.43E-07	1.65E-04	1.84E-02
Mule deer	1.34E-07	5.43E-05	1.31E-02
Pygmy rabbit	1.67E-03	6.75E-01	1.63E+02
Townsend's western big-eared bat	2.32E-06	1.75E-03	9.07E-03
Coyote	3.06E-10	2.70E-08	6.65E-07
Deer mouse	4.44E-04	2.02E-01	2.23E+01
Sagebrush lizard	3.60E-06	1.60E-03	8.65E-03
Plants	1.08E-02	1.30E+01	3.20E+03
Grasshoppers, beetles	NA	NA	NA
Hazard Quotient (unitless)			
Functional Groups	Beryllium	Copper	Manganese
Great Basin spadefoot toad	NA	NA	NA
Mourning dove	NA	4.E-05	6.E-04
Blue-winged teal	NC	NC	NC
Sage sparrow	NA	2.E-03	7.E-04
Ferruginous hawk	NA	6.E-08	9.E-08
Loggerhead shrike	NA	2.E-05	4.E-05
Burrowing owl	NA	4.E-06	7.E-06
Black-billed magpie	NA	2.E-05	2.E-04
Mule deer	6.E-07	8.E-05	5.E-04
Pygmy rabbit	8.E-03	1.E+00	6.E+00
Townsend's western big-eared bat	1.E-05	3.E-03	3.E-04
Coyote	1.E-09	1.E-08	2.E-08
Deer mouse	1.E-03	3.E-01	5.E-01
Sagebrush lizard	NA	NA	NA
Plants	1.E-03	1.E-01	6.E+00
Grasshoppers, beetles	NA	NA	NA

Table G-7. OMRE-01 (Organic Moderated Reactor Experiment Leach Pond).

Concentrations	Chrysene	Lead	Selenium
Concentration in surface soil (0-0.5 ft)	2.55E+03	1.85E+01	2.83E-01
Concentration in subsurface soil (0-10 ft)	1.28E+02	1.45E+01	3.39E-01
Maximum concentration	2.55E+03	1.85E+01	3.39E-01
Water concentration (mg/L)	—	—	—
Size of Site (ha)	5.04E-02	—	—
Dose (mg/kg-d)			
Functional Groups	Chrysene	Lead	Selenium
Great Basin spadefoot toad	7.97E+00	6.04E-02	1.12E-03
Mourning dove	3.33E-02	3.00E-04	6.90E-06
Blue-winged teal	NC	NC	NC
Sage sparrow	6.97E-01	1.27E-01	6.75E-03
Ferruginous hawk	8.73E-05	3.54E-05	3.58E-07
Loggerhead shrike	3.33E-02	1.35E-02	1.37E-04
Burrowing owl	6.63E-03	2.60E-03	2.68E-05
Black-billed magpie	1.99E-02	2.78E-03	8.36E-05
Mule deer	1.01E-02	1.15E-04	2.65E-06
Pygmy rabbit	6.26E+00	7.10E-02	1.64E-03
Townsend's western big-eared bat	1.21E-01	2.57E-02	1.54E-03
Coyote	8.98E-06	3.55E-06	3.64E-08
Deer mouse	6.88E+00	9.55E-01	2.86E-02
Sagebrush lizard	1.16E-01	2.40E-02	1.41E-03
Plants	5.61E+01	3.70E-01	8.48E-03
Grasshoppers, beetles	NA	NA	NA
Hazard Quotient (unitless)			
Functional Groups	Chrysene	Lead	Selenium
Great Basin spadefoot toad	NA	NA	NA
Mourning dove	NA	6.E-04	5.E-05
Blue-winged teal	NC	NC	NC
Sage sparrow	NA	3.E-01	8.E-02
Ferruginous hawk	NA	7.E-05	4.E-06
Loggerhead shrike	NA	3.E-02	2.E-03
Burrowing owl	NA	5.E-03	3.E-04
Black-billed magpie	NA	4.E-03	1.E-03
Mule deer	3.E-01	4.E-05	2.E-05
Pygmy rabbit	2.E+02	3.E-02	1.E-02
Townsend's western big-eared bat	4.E+00	1.E-02	1.E-02
Coyote	3.E-04	1.E-06	3.E-07
Deer mouse	1.E+02	2.E-01	1.E-01
Sagebrush lizard	NA	NA	NA
Plants	NA	7.E-03	8.E-03
Grasshoppers, beetles	NA	NA	NA

Table G-8. CFA-633 Naval Firing Site and Downrange Area.

Concentrations	2,4,6-Trinitrotoluene	HMX	RDX
Concentration in surface soil (0-0.5 ft)	6.43E+00	2.55E+01	6.30E+00
Concentration in subsurface soil (0-10 ft)	3.21E-01	1.28E+00	3.15E-01
Maximum concentration	6.43E+00	2.55E+01	6.30E+00
Water concentration (mg/L)	—	—	—
Size of Site (ha)	5.95E-01	—	—
Dose (mg/kg-d)			
Functional Groups	2,4,6-Trinitrotoluene	HMX	RDX
Great Basin spadefoot toad	1.54E-04	6.12E-04	1.51E-04
Mourning dove	1.96E-01	4.78E+00	4.45E-01
Blue-winged teal	NC	NC	NC
Sage sparrow	4.48E-03	1.78E-02	4.39E-03
Ferruginous hawk	2.41E-07	9.57E-07	2.36E-07
Loggerhead shrike	9.18E-05	3.65E-04	8.99E-05
Burrowing owl	2.64E-05	1.05E-04	2.59E-05
Black-billed magpie	7.99E-02	1.95E+00	1.81E-01
Mule deer	5.84E-02	1.42E+00	1.32E-01
Pygmy rabbit	3.06E+00	7.45E+01	6.94E+00
Townsend's western big-eared bat	1.73E-04	6.87E-04	1.69E-04
Coyote	3.36E-08	1.34E-07	3.30E-08
Deer mouse	2.27E+00	5.53E+01	5.15E+00
Sagebrush lizard	3.83E-05	1.52E-04	3.75E-05
Plants	2.87E+01	6.99E+02	6.50E+01
Grasshoppers, beetles	NA	NA	NA
Hazard Quotient (unitless)			
Functional Groups	2,4,6-Trinitrotoluene	HMX	RDX
Great Basin spadefoot toad	NA	NA	NA
Mourning dove	NA	NA	NA
Blue-winged teal	NC	NC	NC
Sage sparrow	NA	NA	NA
Ferruginous hawk	NA	NA	NA
Loggerhead shrike	NA	NA	NA
Burrowing owl	NA	NA	NA
Black-billed magpie	NA	NA	NA
Mule deer	3.E-02	8.E-02	1.E+00
Pygmy rabbit	2.E+00	4.E+00	7.E+01
Townsend's western big-eared bat	1.E-04	4.E-05	2.E-03
Coyote	2.E-08	8.E-09	3.E-07
Deer mouse	9.E-01	2.E+00	3.E+01
Sagebrush lizard	NA	NA	NA
Plants	NA	NA	NA
Grasshoppers, beetles	NA	NA	NA

Table G-9. Naval Ordnance Disposal Area (Area #2).

Concentrations	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2-Methylnaphthalene	2,4,6-Trinitrotoluene
Concentration in surface soil (0-0.5 ft)	4.14E-01	2.77E-01	2.00E-01	3.05E+00
Concentration in subsurface soil (0-10 ft)	2.67E-01	1.63E-01	1.86E-01	2.19E+00
Maximum concentration	4.14E-01	2.77E-01	2.00E-01	3.05E+00
Water concentration (mg/L)	—	—	—	—
Size of Site (ha)	2.06E+01	—	—	—
Dose (mg/kg-d)				
Functional Groups	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2-Methylnaphthalene	2,4,6-Trinitrotoluene
Great Basin spadefoot toad	1.32E-04	7.80E-05	1.33E-04	1.05E-03
Mourning dove	9.94E-02	1.77E-01	5.17E-04	1.63E+00
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	3.80E-03	2.27E-03	3.38E-03	3.05E-02
Ferruginous hawk	7.66E-06	4.23E-06	1.22E-05	5.68E-05
Loggerhead shrike	6.47E-04	3.57E-04	1.03E-03	4.80E-03
Burrowing owl	2.37E-04	1.35E-04	3.10E-04	1.81E-03
Black-billed magpie	4.29E-02	7.62E-02	6.18E-04	7.03E-01
Mule deer	1.73E-02	3.07E-02	1.29E-04	2.83E-01
Pygmy rabbit	8.89E-02	1.58E-01	6.65E-04	1.46E+00
Townsend's western big-eared bat	6.99E-04	3.51E-04	1.64E-03	4.72E-03
Coyote	1.04E-06	5.91E-07	1.41E-06	7.95E-06
Deer mouse	6.65E-02	1.17E-01	1.25E-03	1.08E+00
Sagebrush lizard	3.46E-05	1.94E-05	5.02E-05	2.61E-04
Plants	8.28E-01	1.48E+00	2.44E-03	1.36E+01
Grasshoppers, beetles	NA	NA	NA	NA
Hazard Quotient (unitless)				
Functional Groups	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2-Methylnaphthalene	2,4,6-Trinitrotoluene
Great Basin spadefoot toad	NA	NA	NA	NA
Mourning dove	NA	NA	NA	NA
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	NA	NA	NA	NA
Ferruginous hawk	NA	NA	NA	NA
Loggerhead shrike	NA	NA	NA	NA
Burrowing owl	NA	NA	NA	NA
Black-billed magpie	NA	NA	NA	NA
Mule deer	2.E-03	3.E-01	2.E-04	2.E-01
Pygmy rabbit	1.E-02	2.E+00	8.E-04	9.E-01
Townsend's western big-eared bat	9.E-05	4.E-03	2.E-03	3.E-03
Coyote	1.E-07	6.E-06	2.E-06	5.E-06
Deer mouse	6.E-03	6.E-01	1.E-03	4.E-01
Sagebrush lizard	NA	NA	NA	NA
Plants	NA	NA	NA	NA
Grasshoppers, beetles	NA	NA	NA	NA

Table G-9. (continued).

4-Methyl-2-Pentanone	Antimony	Barium	Benzo(g,h,i)perylene	Cadmium	Chromium III
5.25E-03	9.41E-01	2.21E+02	1.89E-01	1.81E+00	2.34E+01
5.39E-03	6.08E-01	1.56E+02	1.86E-01	1.25E+00	2.72E+01
5.39E-03	9.41E-01	2.21E+02	1.89E-01	1.81E+00	2.72E+01
—	—	—	—	—	—
—	—	—	—	—	—
Dose (mg/kg-d)					
4-Methyl-2-Pentanone	Antimony	Barium	Benzo(g,h,i)perylene	Cadmium	Chromium III
2.58E-06	7.47E-03	1.76E+00	2.33E-04	1.44E-02	2.21E-01
3.98E-03	2.32E-02	4.15E+00	3.51E-04	1.21E-01	6.51E-01
NC	NC	NC	NC	NC	NC
7.51E-05	1.24E-01	3.22E+01	5.16E-03	2.88E-01	6.01E-01
1.40E-07	2.29E-05	4.61E-02	2.88E-05	4.40E-03	7.61E-03
1.18E-05	1.94E-03	3.90E+00	2.44E-03	3.72E-01	6.44E-01
4.47E-06	6.55E-04	1.02E+00	6.60E-04	9.32E-02	1.68E-01
1.72E-03	5.39E-02	1.32E+01	1.22E-03	2.30E-01	5.74E-01
6.92E-04	4.16E-03	7.54E-01	1.01E-04	2.12E-02	1.19E-01
3.56E-03	2.14E-02	3.88E+00	5.18E-04	1.09E-01	6.11E-01
1.16E-05	1.82E-01	4.75E+01	4.43E-03	4.28E-01	4.07E-01
1.96E-08	2.92E-06	4.74E-03	3.06E-06	4.38E-04	7.84E-04
2.65E-03	8.40E-02	2.06E+01	2.18E-03	3.55E-01	9.28E-01
6.41E-07	4.17E-03	1.09E+00	1.14E-04	9.78E-03	1.11E-02
3.33E-02	1.88E-01	3.32E+01	1.06E-03	9.96E-01	5.17E+00
NA	NA	NA	NA	NA	NA
Hazard Quotient (unitless)					
4-Methyl-2-Pentanone	Antimony	Barium	Benzo(g,h,i)perylene	Cadmium	Chromium III
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	3.E+00	5.E-01
NC	NC	NC	NC	NC	NC
NA	NA	NA	NA	1.E+01	4.E-01
NA	NA	NA	NA	2.E-01	5.E-03
NA	NA	NA	NA	2.E+01	5.E-01
NA	NA	NA	NA	5.E+00	1.E-01
NA	NA	NA	NA	1.E+01	3.E-01
7.E-05	1.E-02	1.E+00	1.E-04	3.E+01	5.E-04
3.E-04	5.E-02	6.E+00	6.E-04	1.E+02	2.E-03
1.E-06	4.E-01	7.E+01	5.E-03	5.E+02	2.E-03
2.E-09	7.E-06	7.E-03	4.E-06	5.E-01	3.E-06
2.E-04	1.E-01	2.E+01	2.E-03	4.E+02	2.E-03
NA	NA	NA	NA	NA	NA
NA	4.E-02	7.E-02	NA	3.E-01	5.E+00
NA	NA	NA	NA	NA	NA

Table G-9. (continued).

Cobalt	Copper	HMX	Lead	Manganese	Mercury	Nickel	Nitrate
8.85E+00	7.88E+01	3.36E-01	3.63E+01	3.50E+02	3.03E-01	3.66E+01	9.83E+01
7.09E+00	5.42E+01	2.19E-01	2.57E+01	2.59E+02	2.73E-01	3.06E+01	1.64E+02
8.85E+00	7.88E+01	3.36E-01	3.63E+01	3.50E+02	3.03E-01	3.66E+01	1.64E+02
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Dose (mg/kg-d)							
Cobalt	Copper	HMX	Lead	Manganese	Mercury	Nickel	Nitrate
7.09E-02	6.27E-01	1.05E-04	2.89E-01	7.92E-01	2.44E-03	2.94E-01	1.33E+00
1.17E+01	7.61E+00	1.10E+00	1.18E-01	4.11E+02	3.30E-02	3.00E-01	1.98E+01
NC	NC	NC	NC	NC	NC	NC	NC
1.30E+00	1.15E+01	3.05E-03	1.84E+00	1.55E+01	2.03E-02	5.40E+00	2.46E+01
1.14E-02	2.14E-02	5.68E-06	2.83E-02	1.18E-01	2.76E-04	1.07E-03	2.13E-01
9.66E-01	1.81E+00	4.80E-04	2.39E+00	9.96E+00	2.34E-02	9.06E-02	1.80E+01
2.43E-01	4.67E-01	1.81E-04	6.05E-01	2.56E+00	5.91E-03	3.12E-02	4.53E+00
5.48E+00	7.36E+00	4.74E-01	1.19E+00	1.81E+02	2.52E-02	2.03E+00	1.71E+01
2.02E+00	1.33E+00	1.91E-01	2.59E-02	7.13E+01	5.77E-03	5.85E-02	3.47E+00
1.04E+01	6.84E+00	9.83E-01	1.33E-01	3.66E+02	2.97E-02	3.01E-01	1.79E+01
1.90E+00	1.69E+01	4.72E-04	2.38E+00	1.92E+01	2.64E-02	7.88E+00	3.53E+01
1.14E-03	2.18E-03	7.95E-07	2.84E-03	1.20E-02	2.77E-05	1.39E-04	2.13E-02
8.43E+00	1.14E+01	7.30E-01	1.87E+00	2.79E+02	3.93E-02	3.17E+00	2.65E+01
4.36E-02	3.88E-01	2.60E-05	5.57E-02	4.54E-01	6.19E-04	1.81E-01	8.13E-01
9.74E+01	6.30E+01	9.21E+00	7.26E-01	3.43E+03	2.73E-01	2.20E+00	1.64E+02
NA	NA	NA	NA	NA	NA	NA	NA
Hazard Quotient (unitless)							
Cobalt	Copper	HMX	Lead	Manganese	Mercury	Nickel	Nitrate
NA	NA	NA	NA	NA	NA	NA	NA
5.E+01	2.E+00	NA	2.E-01	6.E+00	8.E+00	3.E-02	2.E+00
NC	NC	NC	NC	NC	NC	NC	NC
6.E+00	2.E+00	NA	4.E+00	2.E-01	7.E+00	9.E-01	3.E+00
5.E-02	5.E-03	NA	6.E-02	2.E-03	9.E-02	2.E-04	2.E-02
5.E+00	4.E-01	NA	5.E+00	1.E-01	8.E+00	2.E-02	2.E+00
1.E+00	1.E-01	NA	1.E+00	4.E-02	2.E+00	5.E-03	5.E-01
2.E+01	1.E+00	NA	2.E+00	2.E+00	8.E+00	3.E-01	1.E+00
1.E+00	2.E+00	1.E-02	1.E-02	2.E+00	3.E-01	3.E-03	2.E-01
7.E+00	1.E+01	6.E-02	5.E-02	1.E+01	1.E+00	2.E-02	1.E+00
1.E+00	3.E+01	3.E-05	9.E-01	7.E-01	1.E+00	4.E-01	2.E+00
8.E-04	1.E-01	5.E-08	1.E-03	4.E-04	1.E-03	7.E-06	1.E-03
4.E+00	2.E+01	3.E-02	5.E-01	6.E+00	1.E+00	1.E-01	1.E+00
NA	NA	NA	NA	NA	NA	NA	NA
NA	6.E-01	NA	1.E-02	7.E+00	9.E-01	7.E-02	NA
NA	NA	NA	NA	NA	NA	NA	NA

Table G-9. (continued).

Nitrite	Pentachlorophenol	RDX	Silver	Strontium	Tetryl	Vanadium	Zinc
8.09E+01	1.00E+00	3.28E+02	6.10E-01	6.44E+01	7.81E-01	2.66E+01	1.66E+02
3.22E+01	9.44E-01	1.31E+02	5.62E-01	5.77E+01	4.27E-01	2.53E+01	1.19E+02
8.09E+01	1.00E+00	3.28E+02	6.10E-01	6.44E+01	7.81E-01	2.66E+01	1.66E+02
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Dose (mg/kg-d)							
Nitrite	Pentachlorophenol	RDX	Silver	Strontium	Tetryl	Vanadium	Zinc
6.33E-01	4.71E-04	6.27E-02	4.92E-03	5.19E-01	2.04E-04	2.15E-01	1.32E+00
9.72E+00	1.21E-01	4.05E+02	2.99E-02	1.46E+02	4.03E-01	4.81E-02	2.99E+01
NC	NC	NC	NC	NC	NC	NC	NC
1.14E+01	1.35E-02	1.83E+00	9.08E-02	1.39E+01	5.95E-03	3.97E+00	2.42E+01
1.04E-01	2.77E-05	3.40E-03	3.24E-04	1.24E-01	1.11E-05	8.42E-04	1.51E-01
8.76E+00	2.34E-03	2.87E-01	2.74E-02	1.05E+01	9.36E-04	7.11E-02	1.27E+01
2.19E+00	8.51E-04	1.09E-01	7.00E-03	2.64E+00	3.54E-04	2.49E-02	3.21E+00
8.36E+00	5.26E-02	1.74E+02	4.46E-02	6.80E+01	1.74E-01	1.40E+00	2.15E+01
1.69E+00	2.12E-02	7.03E+01	5.30E-03	2.54E+01	7.00E-02	1.38E-02	5.22E+00
8.70E+00	1.09E-01	3.61E+02	2.73E-02	1.31E+02	3.60E-01	7.07E-02	2.68E+01
1.73E+01	2.58E-03	2.82E-01	1.31E-01	2.07E+01	9.20E-04	5.73E+00	3.57E+01
1.03E-02	3.75E-06	4.75E-04	3.28E-05	1.24E-02	1.55E-06	1.10E-04	1.51E-02
1.29E+01	8.25E-02	2.69E+02	6.95E-02	1.05E+02	2.68E-01	2.20E+00	3.33E+01
3.95E-01	1.25E-04	1.56E-02	3.02E-03	4.74E-01	5.08E-05	1.32E-01	8.17E-01
8.09E+01	1.00E+00	3.38E+03	2.44E-01	1.22E+03	3.37E+00	1.46E-01	2.49E+02
NA	NA	NA	NA	NA	NA	NA	NA
Hazard Quotient (unitless)							
Nitrite	Pentachlorophenol	RDX	Silver	Strontium	Tetryl	Vanadium	Zinc
NA	NA	NA	NA	NA	NA	NA	NA
1.E+00	NA	NA	2.E-03	NA	NA	8.E-03	1.E+01
NC	NC	NC	NC	NC	NC	NC	NC
1.E+00	NA	NA	6.E-03	NA	NA	1.E+00	1.E+01
1.E-02	NA	NA	2.E-05	NA	NA	2.E-04	8.E-02
1.E+00	NA	NA	2.E-03	NA	NA	2.E-02	6.E+00
2.E-01	NA	NA	5.E-04	NA	NA	7.E-03	4.E-01
6.E-01	NA	NA	2.E-03	NA	NA	4.E-01	2.E+00
1.E-01	5.E-01	7.E+02	5.E-04	8.E-01	4.E-03	3.E-02	9.E+00
5.E-01	3.E+00	4.E+03	2.E-03	4.E+00	2.E-02	2.E-01	4.E+01
1.E+00	6.E-02	3.E+00	1.E-02	6.E-01	9.E-05	1.E+01	3.E+00
6.E-04	9.E-05	5.E-03	3.E-06	4.E-04	1.E-07	2.E-04	1.E-03
5.E-01	1.E+00	2.E+03	4.E-03	2.E+00	2.E-02	3.E+00	2.E+00
NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	1.E-01	NA	NA	7.E-04	5.E+00
NA	NA	NA	NA	NA	NA	NA	NA

Table G-10. Naval Ordnance Disposal Area (Area #3).

Concentrations	Barium	Chromium III	Cobalt	Copper
Concentration in surface soil (0-0.5 ft)	2.98E+02	2.37E+01	1.14E+01	2.45E+01
Concentration in subsurface soil (0-10 ft)	1.32E+02	2.27E+01	8.23E+00	1.72E+01
Maximum concentration	2.98E+02	2.37E+01	1.14E+01	2.45E+01
Water concentration (mg/L)	—	—	—	—
Size of Site (ha)	8.10E+01	—	—	—
Dose (mg/kg-d)				
Functional Groups	Barium	Chromium III	Cobalt	Copper
Great Basin spadefoot toad	2.34E+00	1.92E-01	9.09E-02	1.95E-01
Mourning dove	5.51E+00	5.66E-01	1.50E+01	2.37E+00
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	4.24E+01	5.10E-01	1.66E+00	3.57E+00
Ferruginous hawk	2.36E-01	2.59E-02	5.76E-02	2.62E-02
Loggerhead shrike	5.09E+00	5.59E-01	1.24E+00	5.64E-01
Burrowing owl	1.31E+00	1.46E-01	3.12E-01	1.46E-01
Black-billed magpie	1.78E+01	5.00E-01	7.05E+00	2.29E+00
Mule deer	9.84E-01	1.03E-01	2.61E+00	4.14E-01
Pygmy rabbit	5.06E+00	5.30E-01	1.34E+01	2.13E+00
Townsend's western big-eared bat	6.39E+01	3.52E-01	2.45E+00	5.26E+00
Coyote	2.40E-02	2.67E-03	5.75E-03	2.67E-03
Deer mouse	2.76E+01	8.05E-01	1.09E+01	3.55E+00
Sagebrush lizard	1.46E+00	9.58E-03	5.61E-02	1.21E-01
Plants	4.47E+01	4.50E+00	1.25E+02	1.96E+01
Grasshoppers, beetles	NA	NA	NA	NA
Hazard Quotient (unitless)				
Functional Groups	Barium	Chromium III	Cobalt	Copper
Great Basin spadefoot toad	NA	NA	NA	NA
Mourning dove	NA	4.E-01	7.E+01	5.E-01
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	NA	4.E-01	8.E+00	8.E-01
Ferruginous hawk	NA	2.E-02	3.E-01	6.E-03
Loggerhead shrike	NA	4.E-01	6.E+00	1.E-01
Burrowing owl	NA	1.E-01	1.E+00	3.E-02
Black-billed magpie	NA	2.E-01	2.E+01	3.E-01
Mule deer	1.E+00	4.E-04	2.E+00	6.E-01
Pygmy rabbit	7.E+00	2.E-03	1.E+01	3.E+00
Townsend's western big-eared bat	9.E+01	1.E-03	2.E+00	8.E+00
Coyote	4.E-02	1.E-05	4.E-03	1.E-03
Deer mouse	3.E+01	2.E-03	5.E+00	5.E+00
Sagebrush lizard	NA	NA	NA	NA
Plants	9.E-02	5.E+00	NA	2.E-01
Grasshoppers, beetles	NA	NA	NA	NA

Table G-10. (continued).

Lead	Manganese	Nickel	Vanadium	Zinc
1.78E+01	4.53E+02	3.75E+01	2.44E+01	1.59E+02
1.45E+01	2.41E+02	2.41E+01	1.82E+01	8.91E+01
1.78E+01	4.53E+02	3.75E+01	2.44E+01	1.59E+02
—	—	—	—	—
—	—	—	—	—
Dose (mg/kg-d)				
Lead	Manganese	Nickel	Vanadium	Zinc
1.43E-01	9.79E-01	2.98E-01	1.95E-01	1.26E+00
6.01E-02	5.31E+02	2.98E-01	3.80E-02	2.86E-01
NC	NC	NC	NC	NC
9.28E-01	1.88E+01	5.43E+00	3.57E+00	2.29E+01
5.47E-02	5.89E-01	3.57E-03	2.52E-03	5.64E-01
1.18E+00	1.27E+01	7.70E-02	5.43E-02	1.21E+01
2.98E-01	3.23E+00	2.60E-02	1.87E-02	3.06E+00
5.83E-01	2.35E+02	2.07E+00	1.28E+00	2.00E+01
1.35E-02	9.22E+01	5.69E-02	1.05E-02	4.99E+00
6.95E-02	4.74E+02	2.92E-01	5.39E-02	2.56E+01
1.17E+00	2.47E+01	8.05E+00	5.25E+00	3.41E+01
5.48E-03	5.94E-02	4.54E-04	3.25E-04	5.63E-02
9.21E-01	3.61E+02	3.23E+00	2.00E+00	3.18E+01
2.76E-02	5.76E-01	1.84E-01	1.20E-01	7.80E-01
3.56E-01	4.44E+03	2.25E+00	1.34E-01	2.39E+02
NA	NA	NA	NA	NA
Hazard Quotient (unitless)				
Lead	Manganese	Nickel	Vanadium	Zinc
NA	NA	NA	NA	NA
1.E-01	8.E+00	3.E-02	7.E-03	1.E+01
NC	NC	NC	NC	NC
2.E+00	3.E-01	9.E-01	9.E-01	1.E+01
1.E-01	8.E-03	6.E-04	7.E-04	3.E-01
2.E+00	2.E-01	1.E-02	1.E-02	6.E+00
6.E-01	5.E-02	4.E-03	5.E-03	2.E+00
8.E-01	2.E+00	4.E-01	3.E-01	7.E+00
5.E-03	3.E+00	3.E-03	2.E-02	4.E-01
3.E-02	2.E+01	2.E-02	1.E-01	2.E+00
4.E-01	9.E-01	4.E-01	1.E+01	2.E+00
2.E-03	2.E-03	2.E-05	7.E-04	4.E-03
2.E-01	8.E+00	1.E-01	3.E+00	2.E+00
NA	NA	NA	NA	NA
7.E-03	9.E+00	8.E-02	7.E-04	5.E+00
NA	NA	NA	NA	NA

Table G-11. Naval Ordnance Disposal Area (Area #4).

Concentrations	Chrysene	Manganese	Selenium	TPH
Concentration in surface soil (0-0.5 ft)	7.80E-01	5.55E+02	9.90E-01	1.20E+03
Concentration in subsurface soil (0-10 ft)	1.65E-01	2.22E+02	3.96E-01	2.04E+02
Maximum concentration	7.80E-01	5.55E+02	9.90E-01	1.20E+03
Water concentration (mg/L)	—	—	—	—
Size of Site (ha)	9.29E-02	—	—	—
Dose (mg/kg-d)				
Functional Groups	Chrysene	Manganese	Selenium	TPH
Great Basin spadefoot toad	4.53E-03	8.76E-01	5.82E-03	7.34E-02
Mourning dove	2.01E-05	5.81E+00	3.07E-05	2.95E+00
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	8.22E-04	5.37E+00	3.43E-02	6.95E-01
Ferruginous hawk	6.38E-08	8.19E-04	1.86E-06	2.38E-05
Loggerhead shrike	2.44E-05	3.13E-01	7.09E-04	9.10E-03
Burrowing owl	5.35E-06	6.04E-02	1.36E-04	2.62E-03
Black-billed magpie	1.23E-05	2.43E+00	4.45E-04	1.20E+00
Mule deer	6.52E-06	1.73E+00	1.04E-05	8.78E-01
Pygmy rabbit	2.19E-03	5.81E+02	3.50E-03	2.95E+02
Townsend's western big-eared bat	7.85E-05	1.17E+00	8.24E-03	1.71E-02
Coyote	7.12E-09	8.23E-05	1.86E-07	3.33E-06
Deer mouse	2.51E-03	4.43E+02	8.17E-02	2.19E+02
Sagebrush lizard	5.74E-05	6.98E-01	4.84E-03	2.43E-02
Plants	1.72E-02	5.44E+03	2.48E-02	2.76E+03
Grasshoppers, beetles	NA	NA	NA	NA
Hazard Quotient (unitless)				
Functional Groups	Chrysene	Manganese	Selenium	TPH
Great Basin spadefoot toad	NA	NA	NA	NA
Mourning dove	NA	8.E-02	2.E-04	NA
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	NA	8.E-02	4.E-01	NA
Ferruginous hawk	NA	1.E-05	2.E-05	NA
Loggerhead shrike	NA	4.E-03	9.E-03	NA
Burrowing owl	NA	9.E-04	2.E-03	NA
Black-billed magpie	NA	2.E-02	6.E-03	NA
Mule deer	2.E-04	6.E-02	8.E-05	2.E-01
Pygmy rabbit	7.E-02	2.E+01	3.E-02	8.E+01
Townsend's western big-eared bat	3.E-03	4.E-02	6.E-02	5.E-03
Coyote	2.E-07	3.E-06	1.E-06	9.E-07
Deer mouse	5.E-02	1.E+01	4.E-01	4.E+01
Sagebrush lizard	NA	NA	NA	NA
Plants	NA	1.E+01	2.E-02	NA
Grasshoppers, beetles	NA	NA	NA	NA

Table G-12. National Oceanic and Atmospheric Administration Grid (Area #1).

Concentrations	Nitrate	Nitrite
Concentration in surface soil (0-0.5 ft)	2.90E+02	6.50E+01
Concentration in subsurface soil (0-10 ft)	8.10E+01	2.60E+01
Maximum concentration	2.90E+02	6.50E+01
Water concentration (mg/L)	—	—
Size of Site (ha)	7.14E+00	—
Dose (mg/kg-d)		
Functional Groups	Nitrate	Nitrite
Great Basin spadefoot toad	2.25E+00	5.08E-01
Mourning dove	2.39E+01	5.36E+00
Blue-winged teal	NC	NC
Sage sparrow	4.06E+01	9.20E+00
Ferruginous hawk	1.28E-01	2.88E-02
Loggerhead shrike	3.13E+01	7.04E+00
Burrowing owl	7.84E+00	1.76E+00
Black-billed magpie	1.94E+01	4.36E+00
Mule deer	6.05E+00	1.36E+00
Pygmy rabbit	3.11E+01	6.99E+00
Townsend's western big-eared bat	6.21E+01	1.39E+01
Coyote	1.27E-02	2.86E-03
Deer mouse	4.62E+01	1.04E+01
Sagebrush lizard	1.41E+00	3.17E-01
Plants	2.90E+02	6.50E+01
Grasshoppers, beetles	NA	NA
Hazard Quotient (unitless)		
Functional Groups	Nitrate	Nitrite
Great Basin spadefoot toad	NA	NA
Mourning dove	3.E+00	6.E-01
Blue-winged teal	NC	NC
Sage sparrow	5.E+00	1.E+00
Ferruginous hawk	1.E-02	3.E-03
Loggerhead shrike	4.E+00	8.E-01
Burrowing owl	9.E-01	2.E-01
Black-billed magpie	1.E+00	3.E-01
Mule deer	4.E-01	8.E-02
Pygmy rabbit	2.E+00	4.E-01
Townsend's western big-eared bat	4.E+00	8.E-01
Coyote	7.E-04	2.E-04
Deer mouse	2.E+00	4.E-01
Sagebrush lizard	NA	NA
Plants	NA	NA
Grasshoppers, beetles	NA	NA

Table G-13. National Oceanic and Atmospheric Administration Grid (Area #2).

Concentrations	1,3,5-Trinitrobenzene	2,4,6-Trinitrotoluene	Nitrate	Nitrite
Concentration in surface soil (0-0.5 ft)	4.00E-01	4.20E-01	3.10E+02	1.15E+02
Concentration in subsurface soil (0-10 ft)	6.90E-02	7.00E-02	9.25E+01	4.60E+01
Maximum concentration	4.00E-01	4.20E-01	3.10E+02	1.15E+02
Water concentration (mg/L)	—	—	—	—
Size of Site (ha)	7.48E+00	—	—	—
Dose (mg/kg-d)				
Functional Groups	1,3,5-Trinitrobenzene	2,4,6-Trinitrotoluene	Nitrate	Nitrite
Great Basin spadefoot toad	3.73E-05	3.35E-05	2.41E+00	8.99E-01
Mourning dove	6.89E-02	1.61E-01	2.68E+01	9.94E+00
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	1.04E-03	9.76E-04	4.34E+01	1.63E+01
Ferruginous hawk	9.06E-07	6.58E-07	1.44E-01	5.34E-02
Loggerhead shrike	2.11E-04	1.53E-04	3.35E+01	1.24E+01
Burrowing owl	7.22E-05	5.80E-05	8.38E+00	3.12E+00
Black-billed magpie	2.81E-02	6.56E-02	2.18E+01	8.09E+00
Mule deer	1.66E-02	3.89E-02	6.47E+00	2.41E+00
Pygmy rabbit	8.55E-02	2.00E-01	3.33E+01	1.24E+01
Townsend's western big-eared bat	2.68E-04	1.51E-04	6.63E+01	2.46E+01
Coyote	1.16E-07	9.21E-08	1.43E-02	5.31E-03
Deer mouse	6.36E-02	1.49E-01	4.94E+01	1.84E+01
Sagebrush lizard	1.09E-05	8.33E-06	1.51E+00	5.62E-01
Plants	8.00E-01	1.87E+00	3.10E+02	1.15E+02
Grasshoppers, beetles	NA	NA	NA	NA
Hazard Quotient (unitless)				
Functional Groups	1,3,5-Trinitrobenzene	2,4,6-Trinitrotoluene	Nitrate	Nitrite
Great Basin spadefoot toad	NA	NA	NA	NA
Mourning dove	NA	NA	3.E+00	1.E+00
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	NA	NA	5.E+00	2.E+00
Ferruginous hawk	NA	NA	2.E-02	6.E-03
Loggerhead shrike	NA	NA	4.E+00	1.E+00
Burrowing owl	NA	NA	9.E-01	4.E-01
Black-billed magpie	NA	NA	2.E+00	6.E-01
Mule deer	2.E-03	2.E-02	4.E-01	1.E-01
Pygmy rabbit	1.E-02	1.E-01	2.E+00	7.E-01
Townsend's western big-eared bat	4.E-05	9.E-05	4.E+00	1.E+00
Coyote	2.E-08	5.E-08	8.E-04	3.E-04
Deer mouse	6.E-03	6.E-02	2.E+00	7.E-01
Sagebrush lizard	NA	NA	NA	NA
Plants	NA	NA	NA	NA
Grasshoppers, beetles	NA	NA	NA	NA

Table G-14. National Oceanic and Atmospheric Administration Grid (Area #2a).

Concentrations	1,3,5-Trinitrobenzene	2,4,6-Trinitrotoluene	RDX
Concentration in surface soil (0-0.5 ft)	6.64E+00	8.64E+02	1.17E+00
Concentration in subsurface soil (0-10 ft)	3.32E-01	4.32E+01	5.87E-02
Maximum concentration	6.64E+00	8.64E+02	1.17E+00
Water concentration (mg/L)	—	—	—
Size of Site (ha)	3.86E-01	—	—
Dose (mg/kg-d)			
Functional Groups	1,3,5-Trinitrobenzene	2,4,6-Trinitrotoluene	RDX
Great Basin spadefoot toad	2.30E-04	2.07E-02	2.81E-05
Mourning dove	5.90E-02	1.71E+01	5.37E-02
Blue-winged teal	NC	NC	NC
Sage sparrow	5.89E-03	6.03E-01	8.18E-04
Ferruginous hawk	3.82E-07	2.10E-05	2.85E-08
Loggerhead shrike	1.46E-04	8.02E-03	1.09E-05
Burrowing owl	3.38E-05	2.31E-03	3.13E-06
Black-billed magpie	2.41E-02	6.97E+00	2.18E-02
Mule deer	1.76E-02	5.09E+00	1.60E-02
Pygmy rabbit	1.42E+00	4.11E+02	1.29E+00
Townsend's western big-eared bat	4.36E-04	1.51E-02	2.05E-05
Coyote	4.45E-08	2.94E-06	3.99E-09
Deer mouse	1.05E+00	3.05E+02	9.57E-01
Sagebrush lizard	8.44E-05	5.15E-03	6.98E-06
Plants	1.33E+01	3.85E+03	1.21E+01
Grasshoppers, beetles	NA	NA	NA
Hazard Quotient (unitless)			
Functional Groups	1,3,5-Trinitrobenzene	2,4,6-Trinitrotoluene	RDX
Great Basin spadefoot toad	NA	NA	NA
Mourning dove	NA	NA	NA
Blue-winged teal	NC	NC	NC
Sage sparrow	NA	NA	NA
Ferruginous hawk	NA	NA	NA
Loggerhead shrike	NA	NA	NA
Burrowing owl	NA	NA	NA
Black-billed magpie	NA	NA	NA
Mule deer	2.E-03	3.E+00	2.E-01
Pygmy rabbit	2.E-01	2.E+02	1.E+01
Townsend's western big-eared bat	6.E-05	9.E-03	2.E-04
Coyote	6.E-09	2.E-06	4.E-08
Deer mouse	9.E-02	1.E+02	6.E+00
Sagebrush lizard	NA	NA	NA
Plants	NA	NA	NA
Grasshoppers, beetles	NA	NA	NA

Table G-15. National Oceanic and Atmospheric Administration Grid (Area #3).

Concentrations	2,4,6-Trinitrotoluene	Nitrate	Nitrite	RDX
Concentration in surface soil (0-0.5 ft)	4.01E+02	3.00E+02	5.50E+01	1.78E+00
Concentration in subsurface soil (0-10 ft)	2.01E+01	1.20E+02	1.82E+01	1.40E-01
Maximum concentration	4.01E+02	3.00E+02	5.50E+01	1.78E+00
Water concentration (mg/L)	—	—	—	—
Size of Site (ha)	1.92E+00	—	—	—
Dose (mg/kg-d)				
Functional Groups	2,4,6-Trinitrotoluene	Nitrate	Nitrite	RDX
Great Basin spadefoot toad	9.62E-03	2.35E+00	4.28E-01	6.70E-05
Mourning dove	3.95E+01	6.65E+00	1.22E+00	4.06E-01
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	2.80E-01	4.25E+01	7.73E+00	1.95E-03
Ferruginous hawk	4.86E-05	3.57E-02	6.54E-03	3.38E-07
Loggerhead shrike	1.85E-02	1.36E+01	2.50E+00	1.29E-04
Burrowing owl	5.34E-03	2.60E+00	4.76E-01	3.71E-05
Black-billed magpie	1.61E+01	5.41E+00	9.92E-01	1.65E-01
Mule deer	1.17E+01	1.98E+00	3.63E-01	1.21E-01
Pygmy rabbit	1.91E+02	3.23E+01	5.91E+00	1.96E+00
Townsend's western big-eared bat	3.50E-02	5.16E+01	9.46E+00	2.42E-04
Coyote	6.80E-06	3.56E-03	6.51E-04	4.73E-08
Deer mouse	1.42E+02	4.79E+01	8.77E+00	1.46E+00
Sagebrush lizard	2.40E-03	1.47E+00	2.68E-01	1.67E-05
Plants	1.79E+03	3.00E+02	5.50E+01	1.84E+01
Grasshoppers, beetles	NA	NA	NA	NA
Hazard Quotient (unitless)				
Functional Groups	2,4,6-Trinitrotoluene	Nitrate	Nitrite	RDX
Great Basin spadefoot toad	NA	NA	NA	NA
Mourning dove	NA	7.E-01	1.E-01	NA
Blue-winged teal	NC	NC	NC	NC
Sage sparrow	NA	5.E+00	9.E-01	NA
Ferruginous hawk	NA	4.E-03	7.E-04	NA
Loggerhead shrike	NA	2.E+00	3.E-01	NA
Burrowing owl	NA	3.E-01	5.E-02	NA
Black-billed magpie	NA	4.E-01	7.E-02	NA
Mule deer	7.E+00	1.E-01	2.E-02	1.E+00
Pygmy rabbit	1.E+02	2.E+00	3.E-01	2.E+01
Townsend's western big-eared bat	2.E-02	3.E+00	6.E-01	2.E-03
Coyote	4.E-06	2.E-04	4.E-05	5.E-07
Deer mouse	6.E+01	2.E+00	4.E-01	1.E+01
Sagebrush lizard	NA	NA	NA	NA
Plants	NA	NA	NA	NA
Grasshoppers, beetles	NA	NA	NA	NA